



STEREO TURNTABLE SYSTEM

SPECIFICATIONS

TURNTABLE (Semi-auto player)

Platter: 32 cm (125/k inches), diecast aluminum

Direct drive, crystal lock control system Drive System:

> 331/3 rpm, 45 rpm Speed:

Pitch Control Range: ±4% (Crystal Lock Switch: OFF)

Wow and Flutter: Less than ±0.04 % (DIN, weighted) Less than 0.025 % (NAB, weighted rms)

S/N Ratio: Greater than 70 dB (DIN, B-curve weighted)

	Position of the Xtal Lock Swi			
	ON	OFF		
Initial Drift:	within 0.0005%	within 0.1%		
Load Characteristics: (at 3 g tracking force)	0%	less than 0.5%		
Speed Deviation:	within 0.003%	variable		

TONEARM

Type: Statically balanced, universal

320 mm (125/8 inches), overall Arm Length:

237 mm (93/s inches), pivot-to-stylus

15 mm (19/32 inches) Overhang:

+ 2°, -2° Tracking Error:

Tracking-force

Adjustment Range: 0-2.5 g (caribrated every 0.25 g) Tonearm Height

Adjustment Range: 7 mm (%2 inches)

> Shell Weight: 12.5 g (SH-160)

Cartridge Weight

Range: 3 - 10g

(8-14 g with extra weight)

(13.5-19.5 g with extra weight)

GENERAL

Power Requirements: 120 V ac, 60 Hz (USA Model)

110, 127, 220 or 240 V ac, 50/60 Hz

(E Model)

20 W Power Consumption:

> 458(w) x 184(h) x 395(d) mm **Dimensions:**

 $18\frac{1}{16}$ (w) x $7\frac{1}{4}$ (h) x $15\frac{9}{16}$ (d) inch es including projecting parts and controls.

Approx. 14.2 kg, 31 lb 5 oz (net) Weight:

Approx. 19 kg, 41 lb 14 oz (with shipping

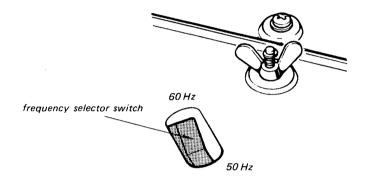
carton)



NOTE: SELECTION OF POWER FREQUENCY

Procedure:

- 1. Remove the turntable.
- 2. Make sure the power frequency of the area this set is used in, and then select the position of Frequency Selector Switch shown in figure below.



SECTION 1 OUTLINE

1-1. BLOCK DIAGRAM

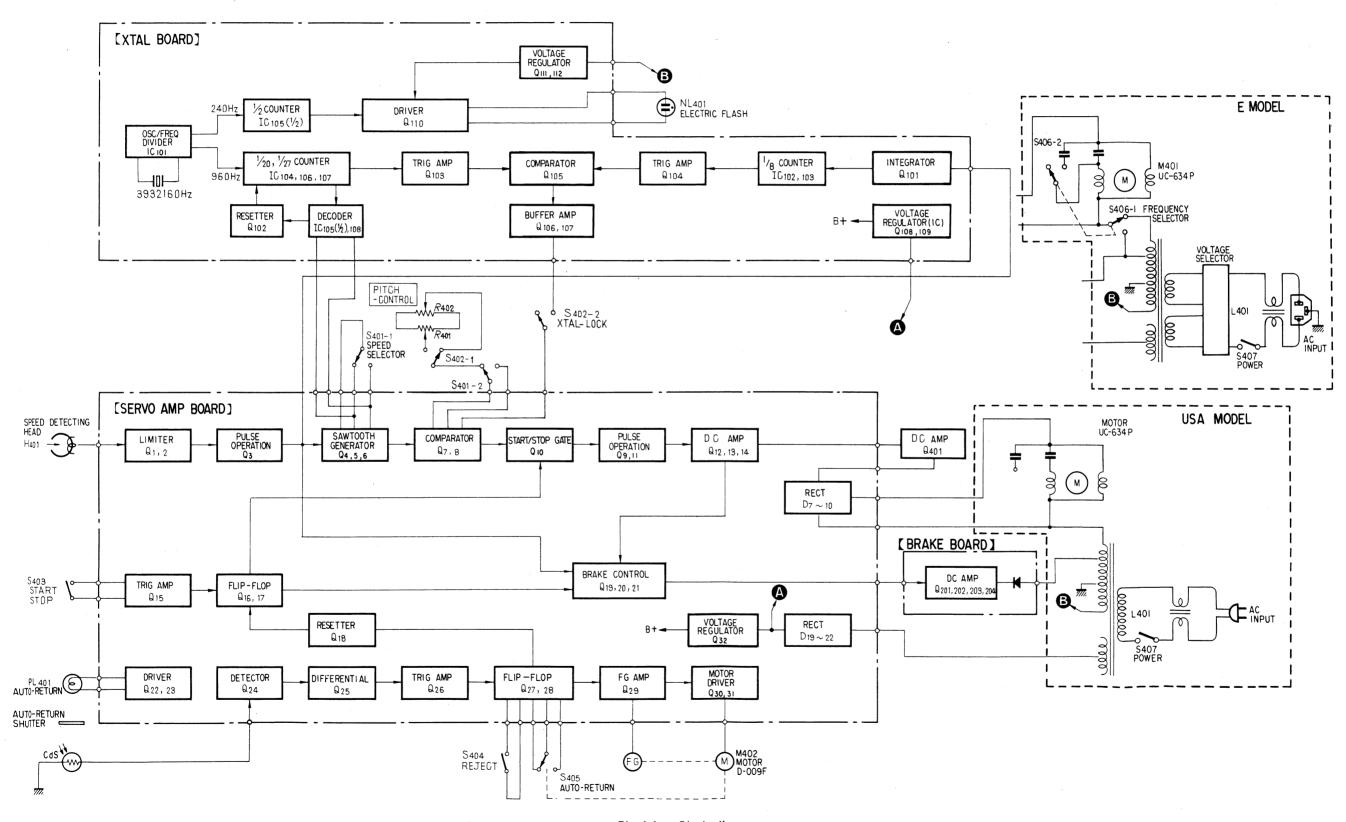


Fig. 1-1. Block diagram

1-2. EXTERNAL VIEW

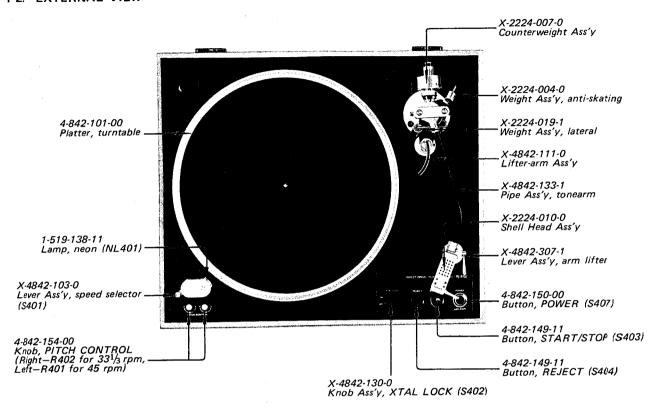


Fig. 1-2. External view

1-3. INTERNAL VIEW

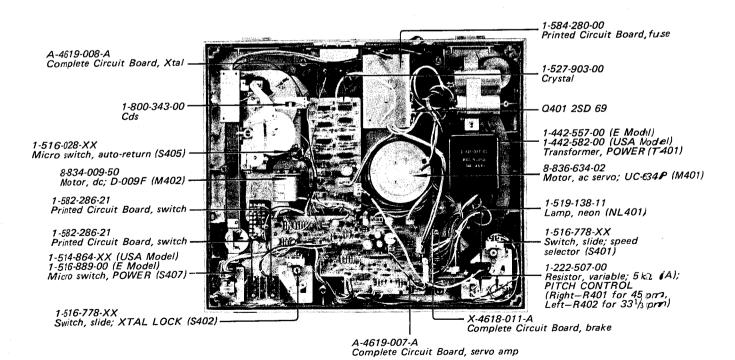


Fig. 1-3. Internal view

SECTION 2 DISASSEMBLY AND REPLACEMENT

2-1. TOP COVER REMOVAL

- 1. Open the top cover (1).
- 2. Lift the top cover toward 2.

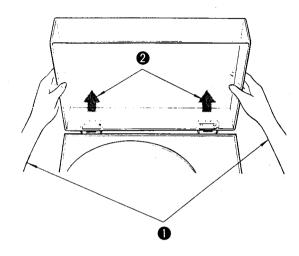


Fig. 2-1. Top cover removal

2-2. BOTTOM BOARD REMOVAL

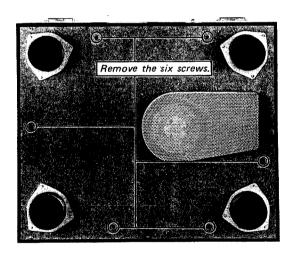


Fig. 2-2. Bottom board removal

2-3. CARTRIDGE REPLACEMENT

- 1. Pull out the four lead wires (1).
- 2. Loosen the two screws and then replace the cartridge (2).
- 3. Connect the four lead wires to the cartridge as shown in Fig. 2-3. (c).

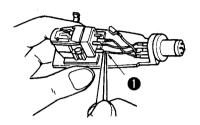


Fig. 2-3. (a) Pulling lead wires

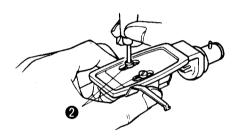


Fig. 2-3. (b) Loosening screws

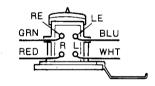
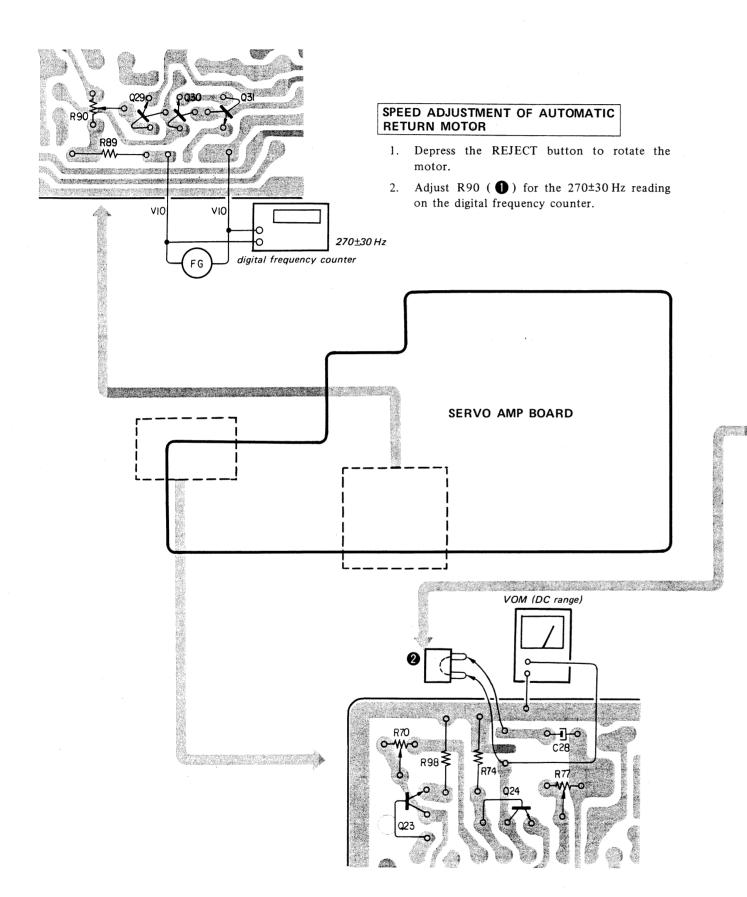


Fig. 2-3. (c) Lead wire connection

SECTION 3 ELECTRICAL ADJUSTMENTS



AUTOMATIC RETURN ADJUSTMENT

A. Lamp Brightness Adjustment

- 1. Remove the connector (2).
- 2. Set the tonearm fully close to the center of turntable. Adjust R70 (3) for the 2 V reading on the VOM.
- 3. Set the tonearm fully apart from the turntable. Adjust R70 (3) for 12±0.5 V dc reading on the VOM.
- B. Operational Check at Automatic Return by Using a Record.
- 1. Check the automatic return operation.
- 2. If it does not work properly, perform the following two procedures.

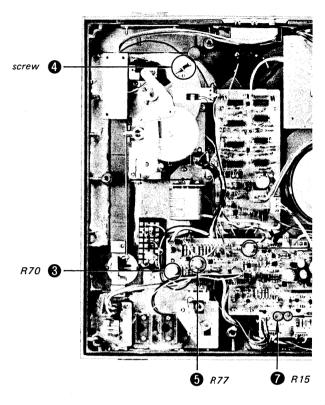
• Procedure (a)

Adjust the screw ($oldsymbol{4}$) referring to the table below.

Time of automatic return	Turning direction of the screw
Too early	Clockwise
Too late	Counterclockwise

• Procedure (b)

Turn carefully R77 (\S) counterclockwise to make the sensitivity of automatic return detector circuit higher.



the

ıding

AUTOMATIC RETURN ADJUSTMENT

A. Lamp Brightness Adjustment

1. Remove the connector (2).

Set the tonearm fully close to the center of turntable. Adjust R70 (3) for the 2 V reading on the VOM.

- 3. Set the tonearm fully apart from the turntable. Adjust R70 (3) for 12±0.5 V dc reading on the VOM.
- B. Operational Check at Automatic Return by Using a Record.
- 1. Check the automatic return operation.
- 2. If it does not work properly, perform the following two procedures.

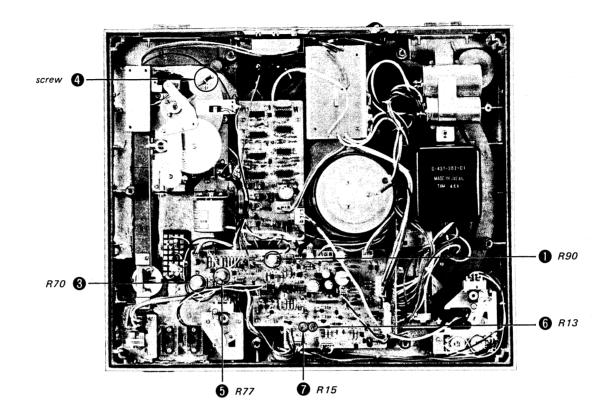
• Procedure (a)

Adjust the screw ($oldsymbol{4}$) referring to the table below.

Time of automatic return	Turning direction of the screw				
Too early	Clockwise				
Too late	Counterclockwise				

• Procedure (b)

Turn carefully R77 (**6**) counterclockwise to make the sensitivity of automatic return detector circuit higher.

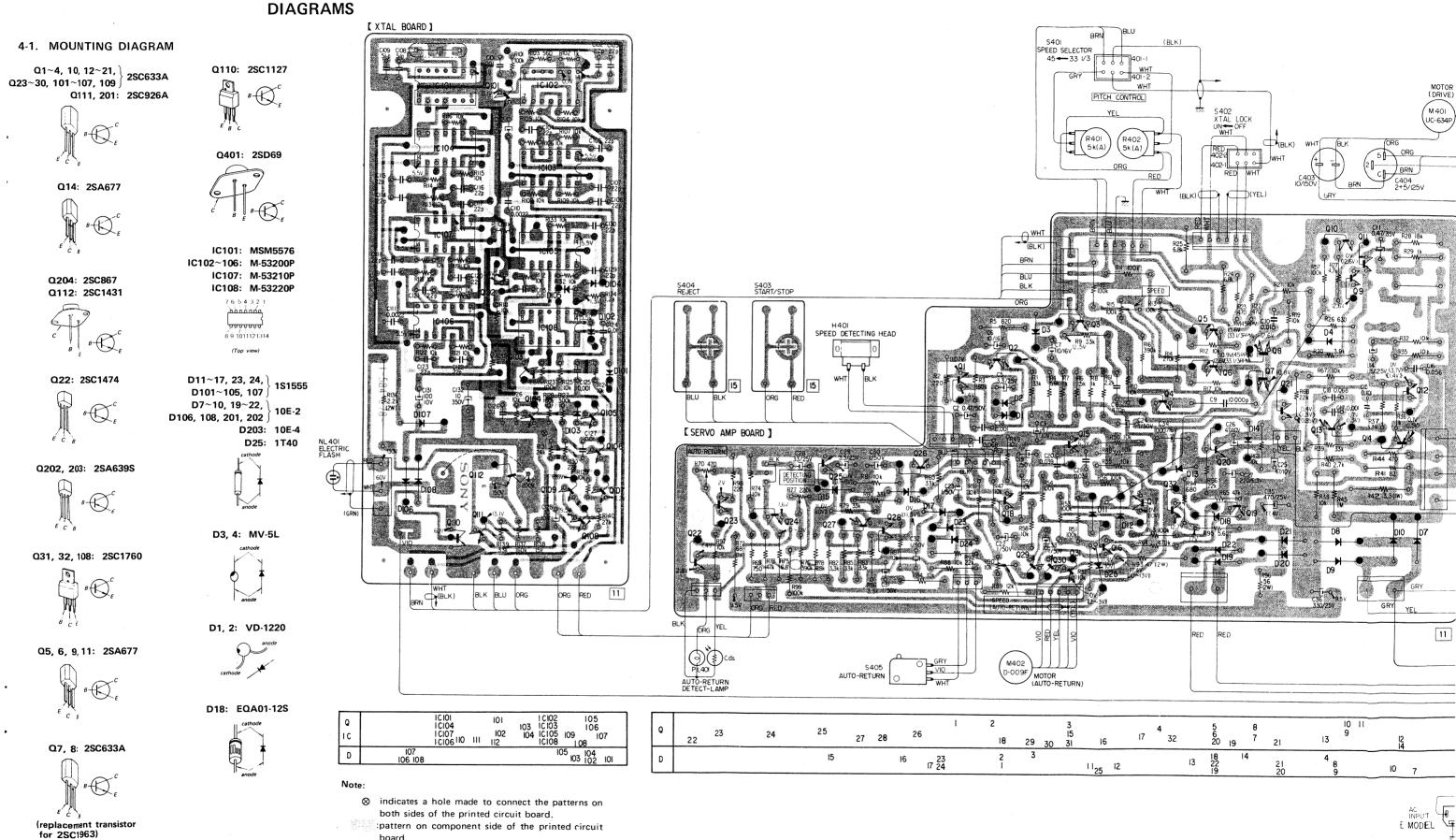


TURNTABLE SPEED ADJUSTMENT

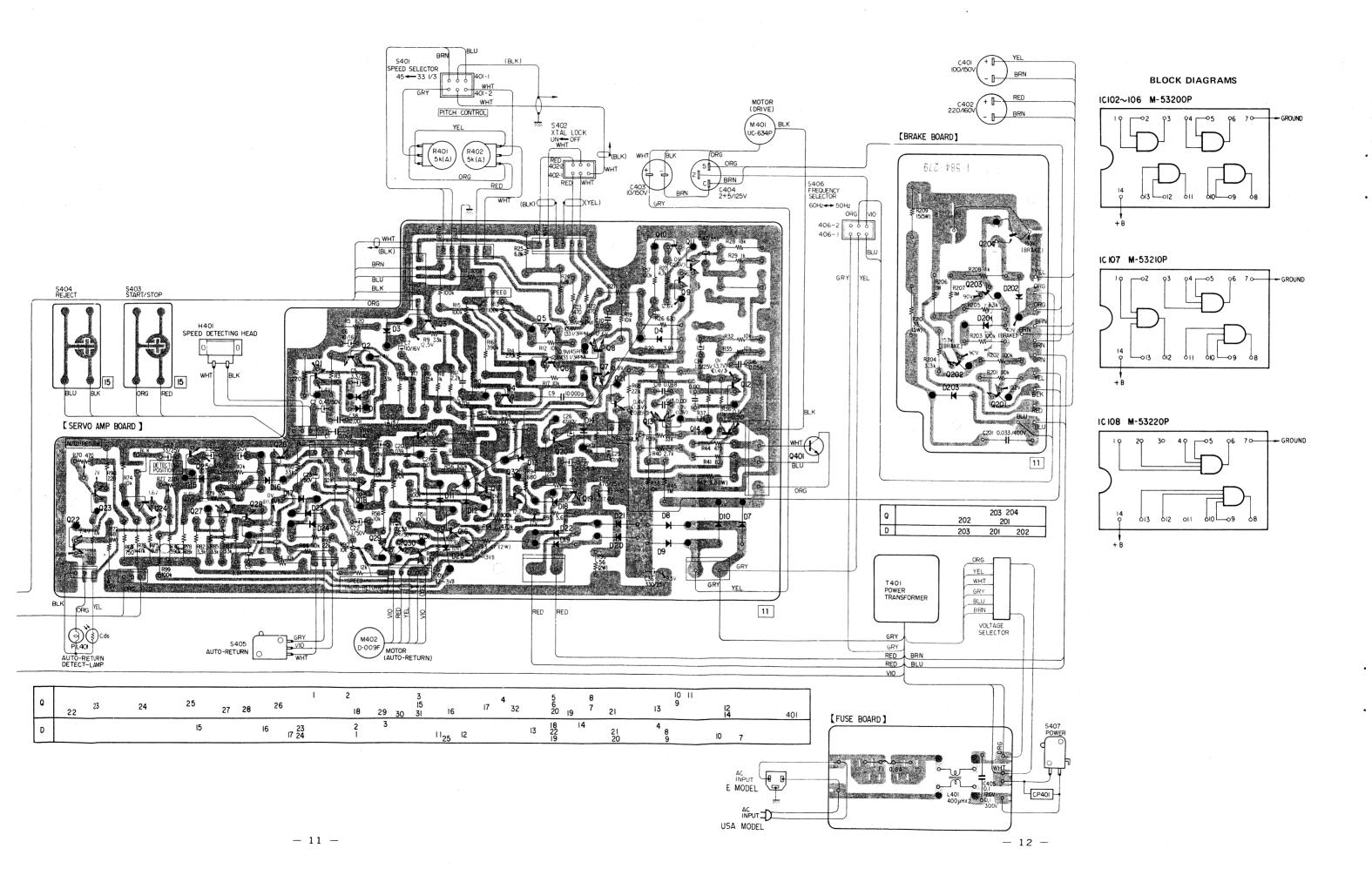
- 1. Set the XTAL LOCK switch to OFF.
- 2. Set the PITCH CONTROL knob to mechanical mid.
- 3. To obtain the speed deviation 0% of 45 rpm and 33½ rpm, adjust R13 (6) for 45 rpm and R15 (7) for 33½ rpm.
- 4. Make sure that the turntable speed is within the specified Pitch Control Range (±4% for each speed) when setting the PITCH CONTROL knob to maximum or minimum.
- 5. Make sure that the turntable speed is 45 rpm when setting the XTAL LOCK switch to ON and it never deviate by turning the PITCH CONTROL knob. Perform the same procedure for 33½ rpm.
- 6. Make sure that the turntable speed is certainly 45 rpm after changing the START/STOP switch several times. Perform the same procedure for 33½ rpm.

USA MODEL

SECTION 4

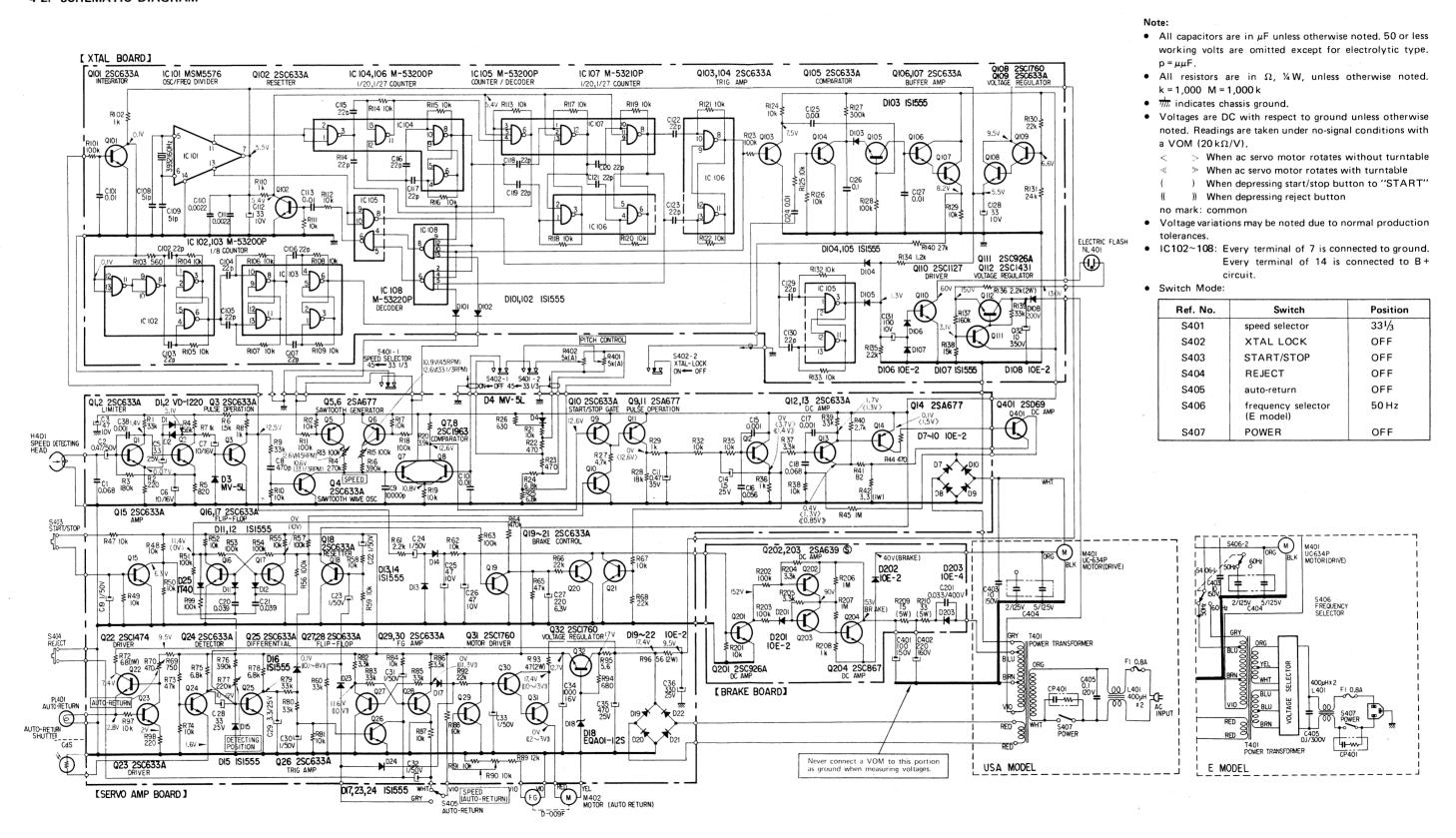


board.

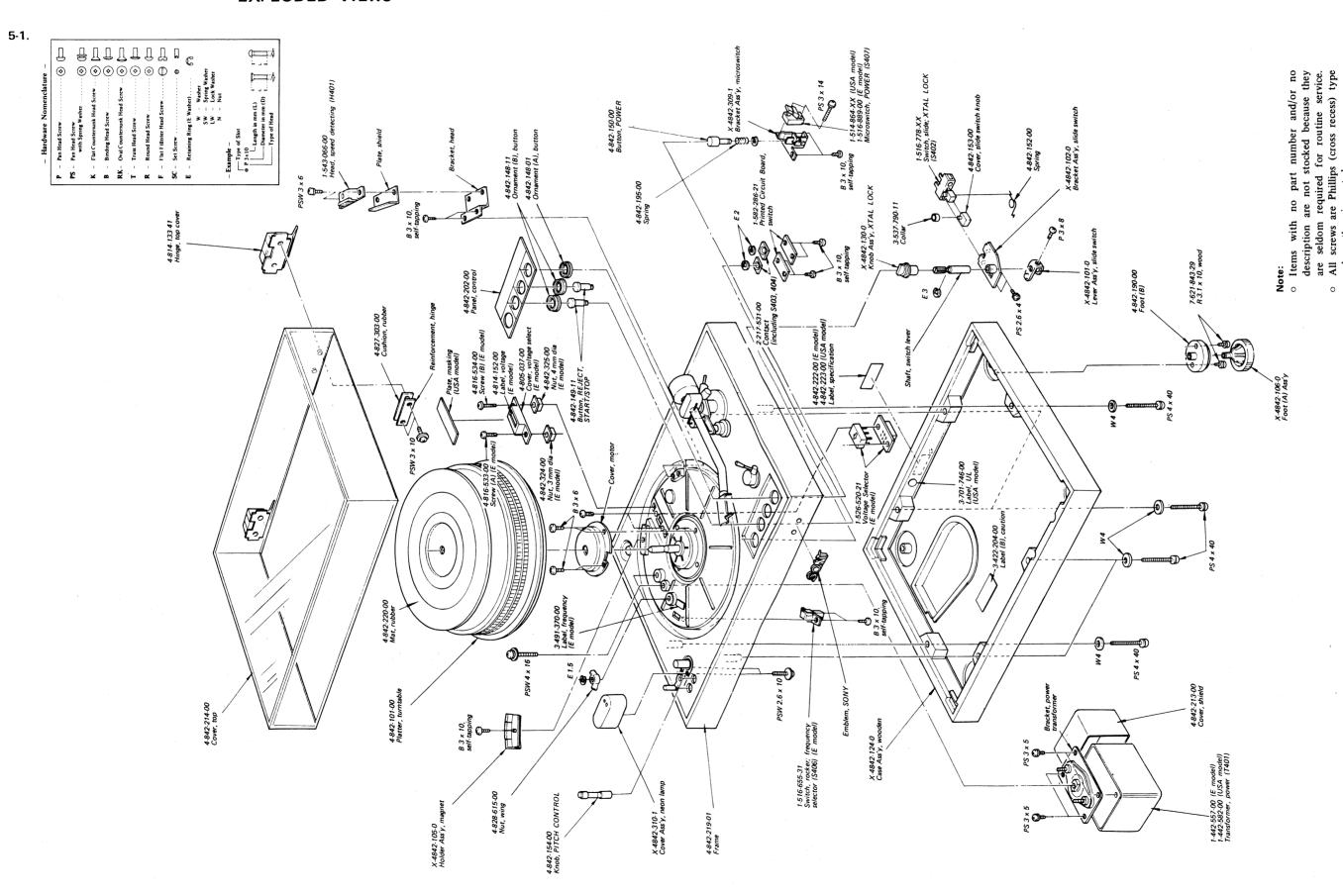


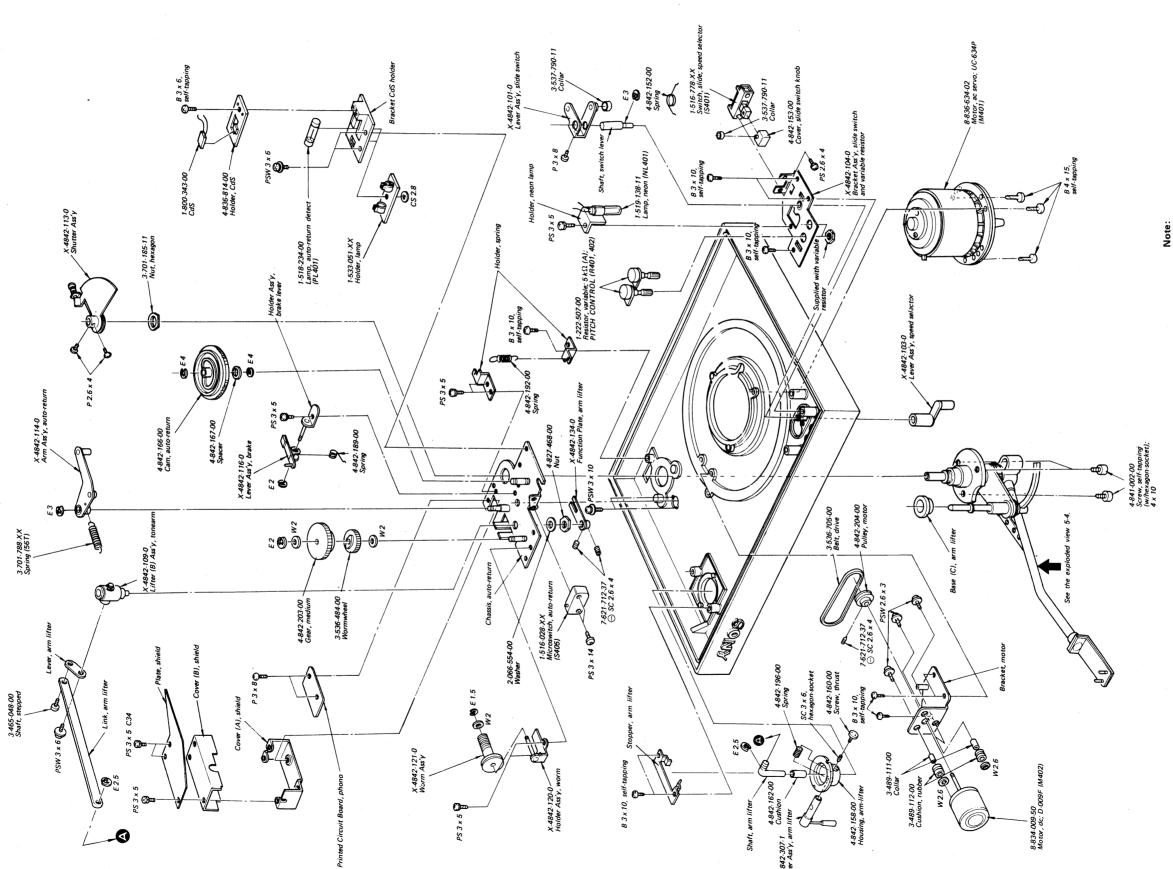
PS-8750 PS-8750

4-2. SCHEMATIC DIAGRAM



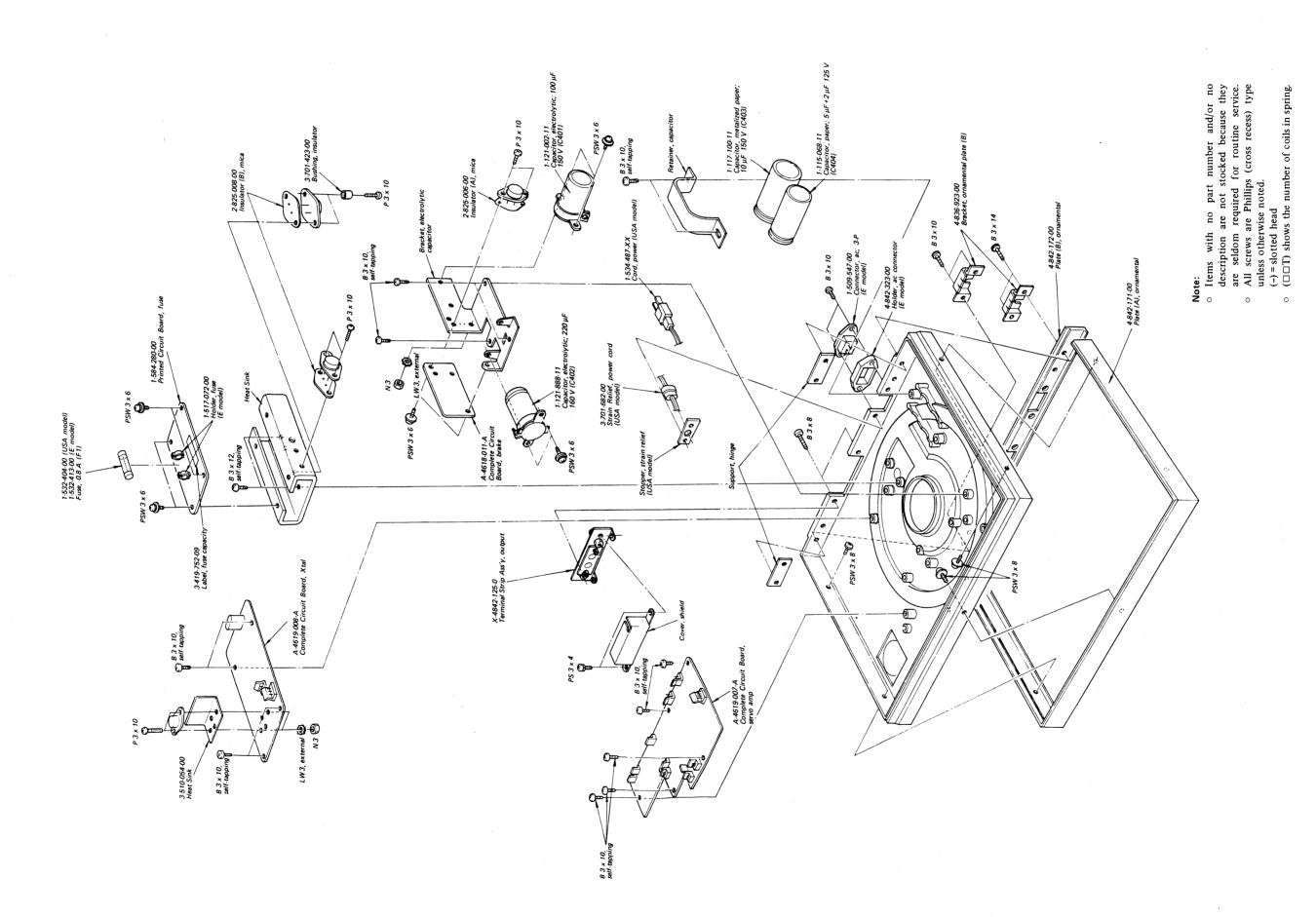
SECTION 5 EXPLODED VIEWS

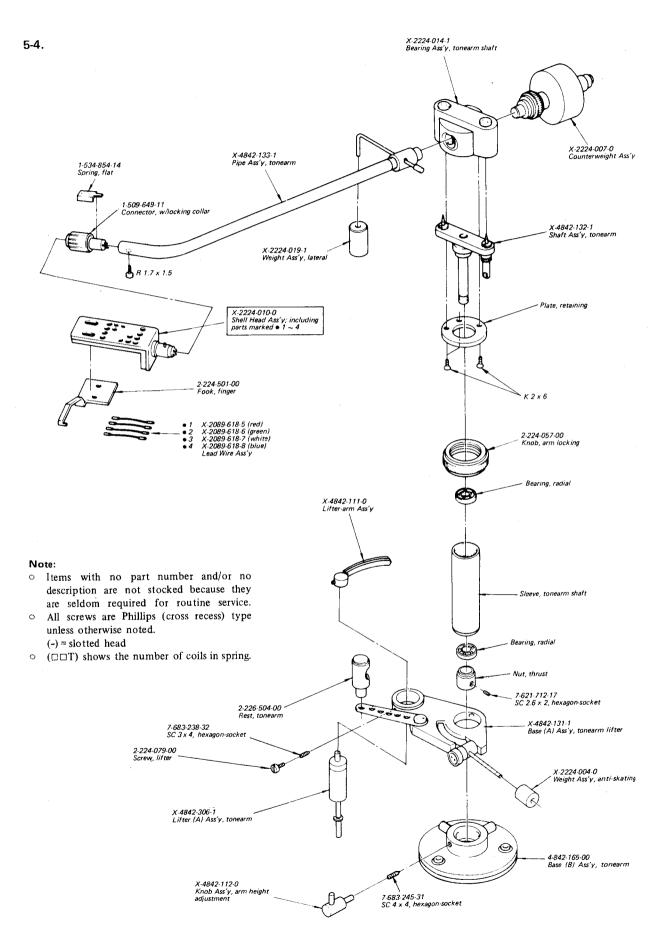




- o Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- o All screws are rnlinps (cross recess) typ unless otherwise noted.

 (-) = slotted head





SECTION 6 ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description	Ref. No.	Part No.		Des	cription
	COMPLETE CI		D	iodes			
	A-4618-011-A A-4619-007-A A-4619-008-A	brake servo amp Xtal	D1,2 D3,4 D7~10		VD1220 MV5L 10E2		
			D11~17 D18		1S1555 EQA01-	12S	
	PRINTED CIF	RCUIT BOARDS	D23,24		2S1555		
	1-584-280-00	fuse	D25 D101~105		1T40 1S1555		
	SEMICON	IDUCTORS	D106 D107 D108		10E2 1S1555 10E2		
	Tran	sistors	D201,202 D203		10E2 10E4		
Q1~4		2SC633A					
Q5,6		2SA677					
Q7,8 Q9		2SC633A × 2 (replacement transistor for 2SC1963) 2SA677		CAPA	CITORS		
Q10		2SC633A	All capacitors are in μ F and of electrolytic unless otherwise noted. (p = $\mu\mu$ F) 50 or less				
Q11		2SA677	work type.	ing volts are om	itted excep	t for e	lectrolytic
Q12~21		2SC633A	type.	•			
Q22		2SC1474					
Q23~30		2SC633A	C1	1-108-847-12	0.068		mylar
Q31,32		2SC1760	C2	1-121-726-11	0.47	50 V	
			C3	1-121-352-11	47	10 V	
Q101~107		2SC633A	C5	1-121-392-11	3.3	25 V	
Q108		2SC1760	C6,7	1-121-651-11	10	16 V	
Q109		2SC633A			4.50		
Q110		2SC1127	C8	1-102-836-11	470 p		ceramic
Q111		2SC926A	C9	1-103-043-11	10000 p		styrol
Q112		2SC1431	C10	1-108-837-12	0.01		mylar
0201		200000	C11	1-121-726-11	0.47	50 V	4.1
Q201		2SC926A	C14	1-131-237-11	1.5	25 V	tantalum
Q202,203		2SA639S	015	1 100 025 12	0.001		
Q204		2SC867	C15	1-108-825-12	0.001		mylar
Q401		2SD69	C16	1-108-846-12	0.056		mylar •
			C17	1-108-825-12	0.001		mylar
		0-	C18	1-108-847-12	0.068	5077	mylar
	'	Cs	C19	1-121-391-11	1	50 V	
IC101	_	MSM5576	C20,21	1-108-844-12	0.039		mylar
IC102~106	5	M53200P	C22~24	1-121-391-11	1	50 V	
IC107		M53210P	C25,26	1-121-352-11	47	10 V	
IC108		M53220P	C27	1-121-419-11	220	6.3 V	

Ref. No.	Part No.		Desc	ription	Ref. No.	Part No.		Des	cription
C28	1-121-404-11	33	25 V	1	R42	1-212-366-11	3.3	1 W	carbon
C29	1-121-392-11	3.3	25 V		R70	1-222-701-00	470		adjustable
C30~33	1-121-726-11	1	50 V		R72	1-213-129-11	68	1 W	metal-oxide
C34	1-121-245-11	1000	16 V		R77	1-222-994-00	220 k		adjustable
C35	1-121-410-11	470	25 V		R90	1-222-805-00	10 k		adjustable
					R93	1-206-122-11	420	2 W	metal-oxide
C36	1-121-245-11	330	25 V	_	706	1 206 101 11		2.11/	
C38	1-108-825-12	0.001		mylar	R96	1-206-481-11	56	2 W	metal-oxide metal-oxide
				_	R136	1-206-672-11	2.2 k	2 W	
C101	1-108-833-12	0.01		mylar	R209	1-217-300-11	15	5 W	wirewound
C102~107	1-102-967-11	22 p		ceramic	R210	1-217-304-11	33	5 W	wirewound le; PITCH CONTROL
C108,109	1-102-491-11	51 p		ceramic	R401,402	1-222-507-00	5 K (A),	variaoi	ie; FIICH CONTROL
C110,111	1-101-919-11	0.0022	1017	ceramic	-				
C112	1-131-195-11	33	10 V	tantalum					
C113	1-108-833-12	0.01		mylar		SWIT	CHES		
C114~123	1-102-967-11	22 p		ceramic	i				
C124	1-108-833-12	0.01		mylar	S401,402	1-516-778-XX			lector, XTAL LOCK
C125	1-101-001-11	0.001		ceramic	S403,404		START	/STOP,	REJECT (included
C126	1-108-816-12	0.1		mylar			in co	ontact)	
					S405	1-516-028-XX	Micro, a		
C127	1-108-833-12	0.01		mylar	S406	1-516-655-31		-	ency selector (E model)
C128	1-131-195-11	33	10 V	tantalum	S407	∫1-514-864-XX			(USA model)
C129,130	1-102-967-11	22 p		ceramic	B407	1-516-889-00	Micro,	POWER	R (E model)
C131	1-121-414-11	100	10 V						
C132	1-123-008-11	10	350 V		,				
C201	1-129-720-11	0.033	400 V	plastic		MISCEL	LANEOL	IS	
C401	1-121-002-11	100	150 V	•	CP401	1-101-534-00	Encapsi	ılated (Component
C402	1-121-888-11	220	160 V			(1-532-404-00	Fuse, 0	.8 A (U	SA model)
C403	1-117-100-11	10	150 V	metalized paper	F1	1-532-413-00	Fuse, 0	.8 A (E	model)
C404	1-115-068-11	5+2	125 V	paper	H401	1-543-066-00	Head, s	peed de	etecting
0.01	(1-108-747-22	0.1	300 V	mylar (E model)	M401	8-836-634-02	Motor,	ac serv	o; UC-634P
C405	1-108-747-11	0.1	120 V	mylar (USA model)	M402	8-834-009-50	Motor,		
					NI 401	1-519-138-11	T		
					NL401		Lamp,		turn detect
	RES	ISTORS			PL401	1-518-234-00			power (E model)
		_		1/34 1	T401	$ \begin{cases} 1-442-557-00 \\ 1-442-582-00 \end{cases} $		_	power (USA model)
	resistors are in ol			Check schematic	7.401	*	Coil, li	, 1	
	ram for resistanc				L401	1-421-302-22 1-509-547-00			; 3-p (E mode 1)
uiug	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					1-509-649-11			locking collar
D12 14	1 224 255 22	1001-		adjustable		1-517-072-00			E model)
R13,15	1-224-255-XX		1/4 W	metal-oxide		1-526-520-21			tor (E model)
R14	1-213-200-11	270 k	1⁄4 W	metal-oxide metal-oxide		1-527-903-00	Crystal		\ ••• •••
R16	1-213-201-11	390 k 10 k	74 W	metal-oxide metal-oxide		1-533-051-XX	Holder,		
R21	1-213-199-11	6.8 k		metal-oxide		1-534-487-XX		_	USA model)
R24,25	1-213-198-11	0.0 K		metar oxide		1-534-854-14	Spring,		
						1-800-343-00	Cds		
					I				

ACCESSORIES				
Part No.	Description			
X-2224-011-0	Screw Ass'y, cartridge			
1-534-551-XX	Cord, power (E model)			
1-551-085-11	Cord, phono			
2-089-697-00	Screwdriver			
2-224-086-00	Sub-weight			
3-780-752-11	Manual, instruction (E model)			
3-780-752-21	Manual, instruction (USA model)			
3-793-395-13	Gauge, overhang adjustment			
4-808-461-00	Adaptor, 45 rpm			